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**ABSTRACT:**

The invention provides improved techniques for investigating DNA samples, which offers improved sensitivity and specificity.

The invention provides a method of investigating single nucleotide polymorphisms in a sample of DNA, the method comprising contacting the DNA containing sample with at least one first set of primers, amplifying the DNA using those primers to give an amplified product, contacting at least a portion of the amplified product with at least one second set of primers, amplifying the DNA using those second set of primers to give a further amplified product and examining one or more characteristics of the further amplified product, one or more of the primers of the first set of primers including a locus specific portion and a further portion, the locus specific portion of one of those one or more of the primers annealing to one side of the SNP under investigation.